



**Screened BMP's- FINAL**  
**Task E: Retrofits Alternative Ranking**  
**College St. Stormwater Improvements Project**

**September, 30th, 2013**

 **WATERSHED**  
CONSULTING ASSOCIATES, LLC

Source:  
Aerial Imagery: ESRI 2013  
Infrastructure: BTV 2013, Revisions by WCA 2013  
College St. Watershed Delineation: WCA 2013  
Subwatershed Delineation: WCA 2013

0 50 100 200  
Feet

1 inch = 46 feet

N





# College and Pine Street Stormwater Improvements - Burlington, VT

Scale: 1"=10'  
September 2013



Urban Rain | Design

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- 1 A series of stormwater curb extension captures stormwater from College Street. Depending on if there are mature street present, the stormwater landscape expands into the sidewalk furnishing zone.
- 2 Pine Street parking zone on the east side is converted from parallel parking to diagonal parking
- 3 A stormwater curb extension captures stormwater runoff from Pine Street. Access to existing bank is closed to allow for improvements.

- 4 A stormwater curb extension captures stormwater overflow wrapping around College Street during high-intensity rainfall events.
- 5 A pair of stormwater curb extensions captures runoff from the College Street/Pine Street intersection
- 6 Specialty paving at pedestrian crossings.

- 7 College Street maintains two 10' travel lanes
- 8 Pine Street maintains two 10' travel lanes.
- 8 Existing access to bank is retained.



Stormwater curb extensions with diagonal parking



Stormwater curb extensions with parallel parking





# Bank and Pine Street Stormwater Improvements - Burlington, VT

Scale: 1"=10'  
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- 1 Where there are no mature street trees, three stormwater planters are inserted within the existing landscape strip to capture low-flow runoff from Bank Street. On-street parking is retained.
- 2 A 3'-wide pedestrian egress zone allows people to exit and enter their vehicles within conflict with stormwater planters.
- 3 5'-wide carriage pathways allow for pedestrian access from the sidewalk to parking zone. These pathways can be in boardwalk form to allow stormwater to flow continuously from planter to planter.

- 4 A stormwater curb extension captures stormwater during high-intensity rainfall events.
- 5 A 2'-wide green gutter captures stormwater from the southern half of bank street. The green gutter system would traverse the entire length of bank street except at driveway entrances.
- 6 Existing landscape area is to remain.

- 7 New landscape areas, but not designed for stormwater capture.
- 8 A stormwater curb extension captures runoff at the low-point of the Bank Street/Pine Street intersection.
- 9 Bank Street still maintains two 10' wide travel lanes.



Stormwater planters with on-street parking



Boardwalk bridge



Green gutter system